GOVERNMENT OF ANDHRA PRADESH
ABSTRACT

Energy Department – Green Hydrogen Valley Declaration – Andhra Pradesh – Orders – Issued.

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ENERGY (POWER.II) DEPARTMENT

G.O.MS.No. 65 Dated: 28-07-2025

Read:

From the VC & MD, NREDCAP, Tadepalli, Guntur District, Letter No.NREDCAP/Green Hydrogen/GH2 Valley/2025, Date:22.07.2025.

**O R D E R:**

The Government of Andhra Pradesh successfully organized the Green Hydrogen Summit at SRM University-Andhra Pradesh, Amaravati on 18-19 July 2025, in association with the Government of Andhra Pradesh and NREDCAP focused on 1) Green Hydrogen Production, Storage, and Distribution, 2) Green Hydrogen Applications in Industry, Transport, and Power Generation, 3) Policy, Standards, and Capacity Building for a Sustainable Hydrogen Ecosystem. Participants included Senior Government Officials, Industry leaders, global partners, start-ups, faculty members and reputed scientists from various organisations.

2. As a key outcome of the deliberations held during the submit that unveiled the Green Hydrogen Valley Declaration-Andhra Pradesh aiming to establish the State as India's largest green hydrogen hub and outlining a roadmap to transform Andhra Pradesh into a Green Hydrogen Valley by 2030.

3. After Careful examination of the proceedings and in view of the significance of this initiative, the Government hereby approves the Green Hydrogen Valley Declaration- Andhra Pradesh. This declaration lays a robust foundation for collaboration, innovation, and strategic investment and tackle the pressing challenges of climate change and energy security, foster cost-effective clean energy solutions, drive inclusive economic growth, job creation and sustainable development. A copy of the approved Declaration is annexed to this order for reference and further action.

4. The Vice-Chairman & Managing Director, NREDCAP, Tadepalli, Guntur District shall take necessary action accordingly.

(BY ORDER AND IN THE NAME OF THE GOVERNOR OF ANDHRA PRADESH)

K.VIJAYANAND
SPECIAL CHIEF SECRETARY TO GOVERNMENT

To
The Vice-Chairman & Managing Director,
New and Renewable Energy Development Corporation of Andhra Pradesh

Tadepalli, Guntur District
The Chairman & Managing Director, APTRANSCO, Vidyut Soudha, Vijayawada
The Managing Director, APGENCO, Vidyut Soudha, Vijayawada.

Copy to:
The Registrar, SRM University, Amaravati.
The Secretary to Govt of India, Ministry of New and Renewable Energy, New Delhi.
The PS to Secretary to Hon'ble Chief Minister.
The P.S to Secretary to Chief Minister.
The P.S. to Minister for Energy.
The P.S to Chief Secretary to Govt.
The P.S. to the Special Chief Secretary to Government, Energy Department.
The Secretary, Ministry of Power, GoI, New Delhi.
G.A (Cabinet) Dept.,
SF/SCs.(2911309)

//FORWARDED ::BY ORDER//

SECTION OFFICER

# (Annexure to G.O.Ms.No. 65 Energy (Power.II) Dept, dated:28-07-2025

# Green Hydrogen Valley Declaration – Andhra Pradesh

Shaping India's Clean Energy Future and Green Hydrogen Innovation issued at Amaravati, Andhra Pradesh, on 19.07.2025

On 18th -19th July 2025, the Green Hydrogen Summit at SRM University-Andhra Pradesh, Amaravati, in association with the Government of Andhra Pradesh and NREDCAP focused on 1) Green Hydrogen Production, Storage, and Distribution, 2) Green Hydrogen Applications in Industry, Transport, and Power Generation, 3) Policy, Standards, and Capacity Building for a Sustainable Hydrogen Ecosystem. Participants included senior government officials, industry leaders, global partners, start-ups, faculty members and reputed scientists from various organisations.

**Preamble**

Andhra Pradesh is richly endowed with solar and wind energy potential, complemented by pumped hydro storage capacity, creating favorable conditions for large-scale development of green hydrogen. The state's long coastline further strengthens its position by offering an ideal ecosystem for exporting green hydrogen and its derivatives to Southeast Asian countries.

In a significant step toward clean energy leadership, the Government of Andhra Pradesh has recently established the first thematic center under the World Economic Forum's Centre for the Fourth Industrial Revolution (C4IR) network in collaboration with WEF's Centre for Energy and Materials (CENMAT), focuses on Energy Transition and Green Industries, driving innovation and sustainable growth in the region.

Recognizing the Green hydrogen as a key component of a Green economy transition, aligns with the National Green Hydrogen Mission of Govt. of India to enable a robust green hydrogen ecosystem, we the undersign adopt the following commitments.

**Joint commitments**

The Green Hydrogen Valley will promote the India's largest eco-system for production of Green Hydrogen and its derivatives in partnership with industry and academia, aimed at accelerating domestic R&D and capacity building in Green Hydrogen technologies including testing facilities.

**Key targets**

- Establishing Electrolyser manufacturing capacity of 2 GW by 2027 and 5 GW by 2029
- 1.50 MMTPA Green Hydrogen production capacity by 2029
- Achieve Cost reduction from Rs.460 per Kg to Rs. 160 – 170 per Kg by 2029
- Creation of Transmission infrastructure (Green Energy Corridor) to evacuate 25 GW RE power by 2029.

**Indigenous Supply-Chain Acceleration**
By 2030, at least 60% of all electrolyser components and storage solutions deployed in the state will be produced locally, reducing import dependency. At least 3 new production units for electrolyser and hydrogen storage manufacturing will be established, with a combined production capacity of at least 4–5 GW for electrolyser equipment.

**Promotion of Green Hydrogen Technologies:**
The Green Hydrogen Valley will establish Skilling Ecosystem, Specialized Research Hubs with dedicated green hydrogen research centres, create cross disciplinary labs, encourage collaborations with premier institutes. Promote Public Private Partnership (PPP) models to fund breakthrough projects, incentivize joint ventures between local start-ups and global hydrogen tech firms and facilitate knowledge exchange forums, workshops, and annual innovation summits.

**Talent & Capacity Building**
The Green Hydrogen Valley will establish India's first Integrated Green Hydrogen Skilling Eco System in collaboration with the reputed Universities and Institutions, to offer engineer up skilling and technician certifications – training 200 specialists in the first year and 2,000 annually by 2030.

**Start-ups and Innovation**
The Green Hydrogen Valley will spearhead the creation of a robust start-up ecosystem in the green hydrogen sector. To catalyse innovation, the state will support start-ups working across the entire green hydrogen value chain. Special priority will be given to the indigenization of high-strength carbon fibre production and the manufacture of 750-bar Type IV composite hydrogen storage cylinders for mobility and transport—reducing import dependency and supporting domestic value addition in advanced materials. To catalyse innovation, the state will allocate ₹500 crores over five years to support at least 50 start-ups working across the entire green hydrogen value chain.

**R&D and Testing Facilities**
To support the development of green hydrogen technologies, the Government of Andhra Pradesh will promote world-class Research and Development (R&D) centers and advanced testing facilities involving SRM University-AP as the State Nodal Agency, to carryout advanced research in Green Hydrogen Technologies including the testing facilities, with active support from the Nation's Mission. These Centers are expected to attract national and international researchers annually, fostering collaboration on breakthrough technologies in green hydrogen production, storage, and utilization.

**Global Collaboration & Standard Leadership**
In partnership with the National Green Hydrogen Mission, Govt. of India, we will establish formal partnerships with leading national research

institutions, industry leaders, and international agencies and organizations focused on green hydrogen technologies.

**Governance & Accountability**

A multi-stake-holder Green Hydrogen Valley Advisory Board will be established with multiple working groups to identify the best technologies for production of Green Hydrogen and its derivatives, testing facilities and storage facilities. Green Hydrogen Summit /Progress Meetings will be held annually at SRM University-AP, which will be the Nodal Agency.

**Call to Action**

We invite all stake-holders-including government agencies, industry leaders, innovators, research institutions, academia, and global partners—to unite in advancing the Government of India's Mission and transforming Andhra Pradesh into a thriving Green Hydrogen Valley.

This declaration lays a robust foundation for collaboration, innovation, and strategic investment. Together, we can tackle the pressing challenges of climate change and energy security, foster cost-effective clean energy solutions, and drive inclusive economic growth.

**By 2030, Green Hydrogen Valley aspires to become not only India's Green Hydrogen capital but also a Global beacon of Clean Energy Future.**

**Signed on this day of 19 July 2025, at Amaravati, A.P.**